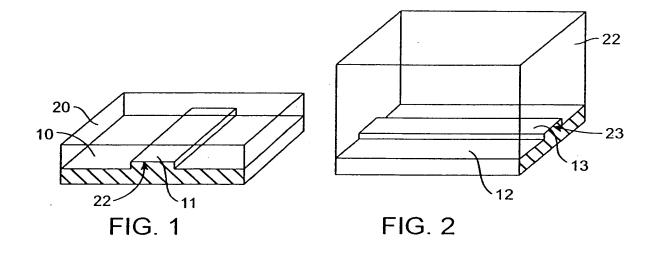
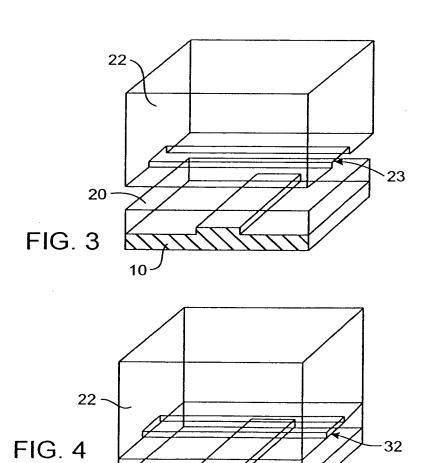
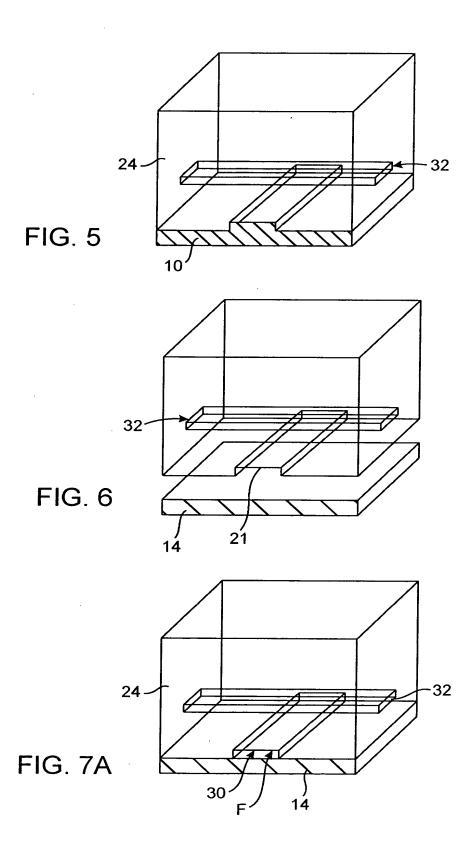


1/63





2/63



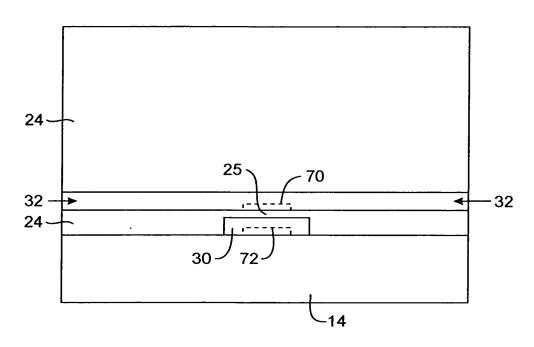


FIG. 7B

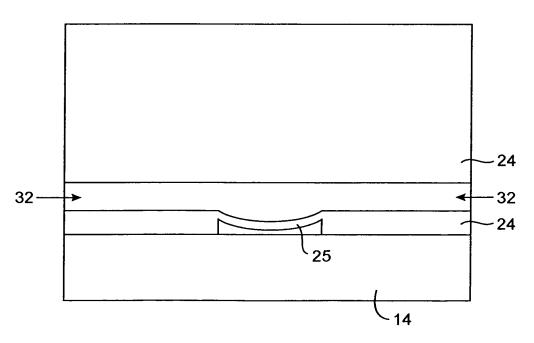
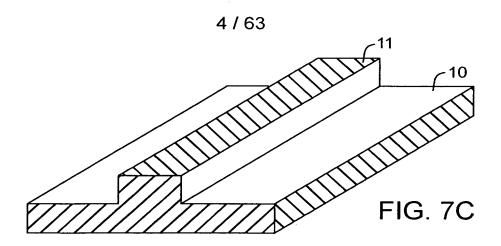
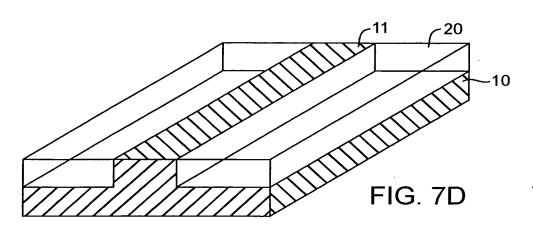
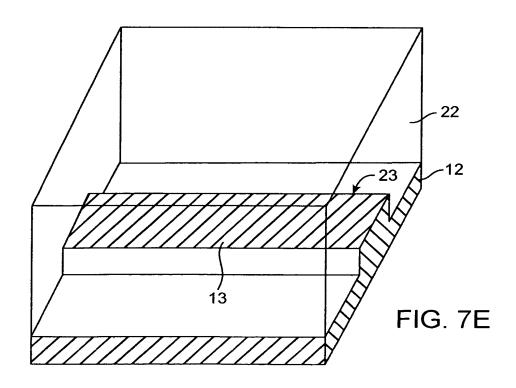


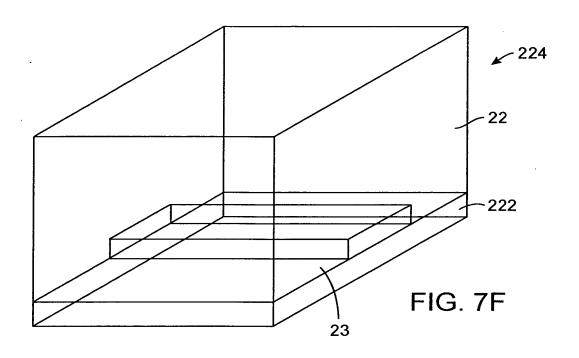
FIG. 7H

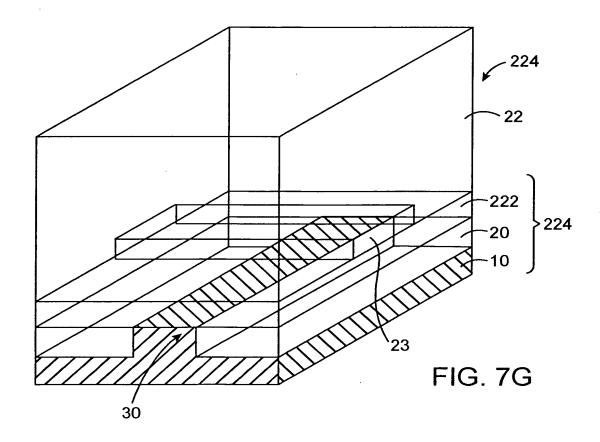


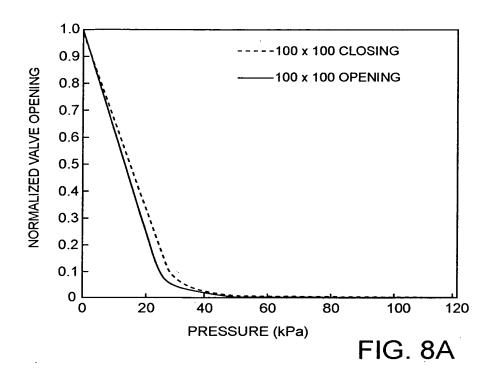


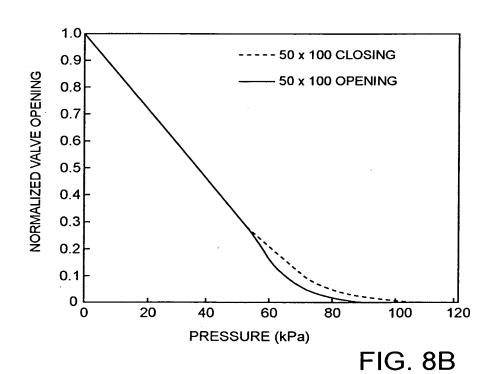


5/63





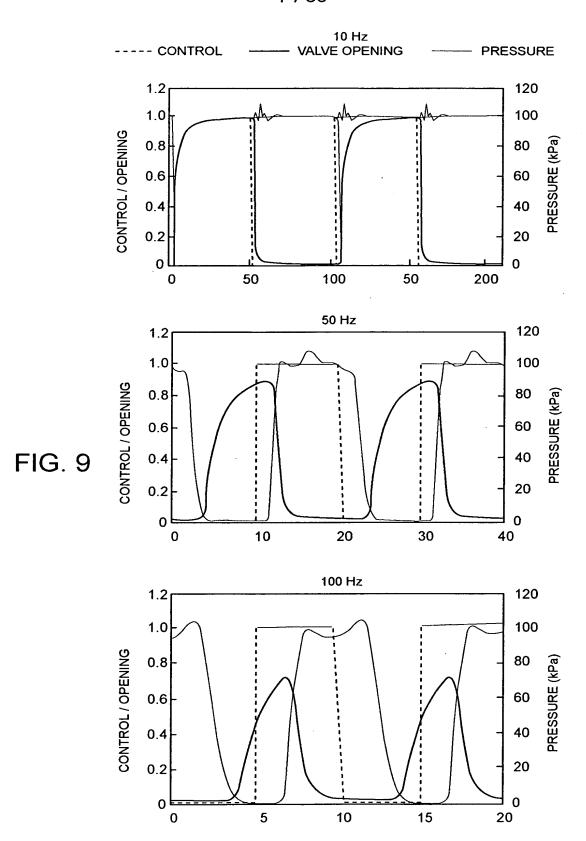




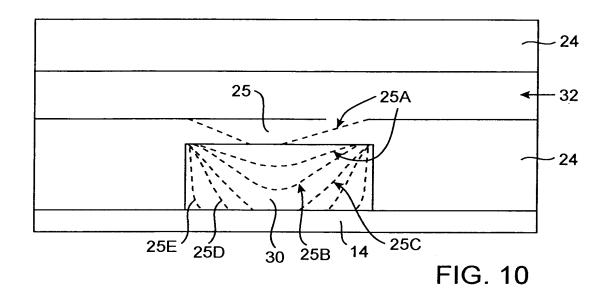
20174C-004940US, **Appln No. 10/637,847** Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400

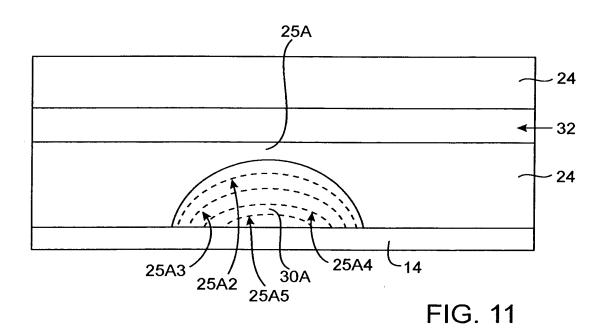
Title: Microfluidic Protein Crystallography Inventors: Carl L. Hansen et al.

7/63



8/63





9/63

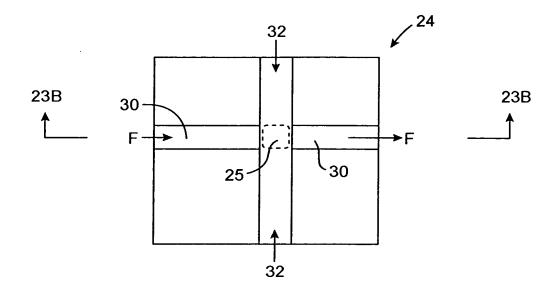


FIG. 12A

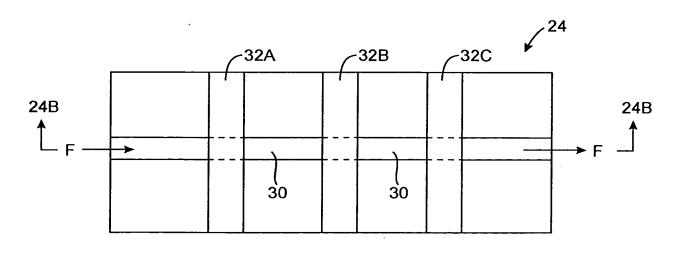


FIG. 13A

10/63

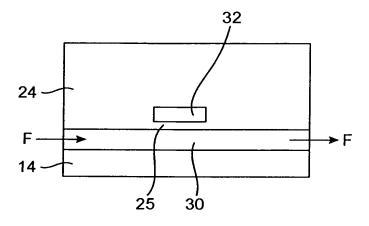


FIG. 12B

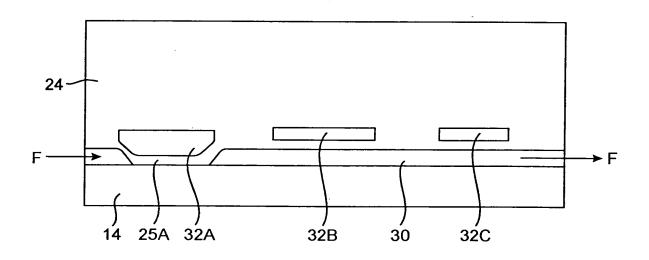


FIG. 13B

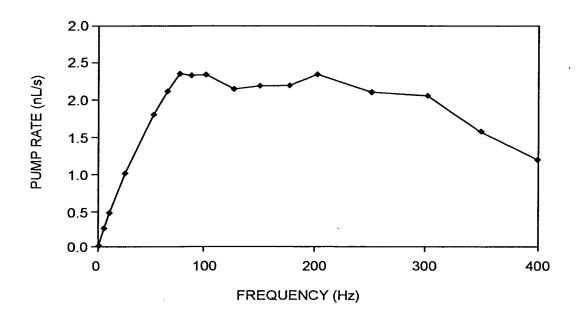
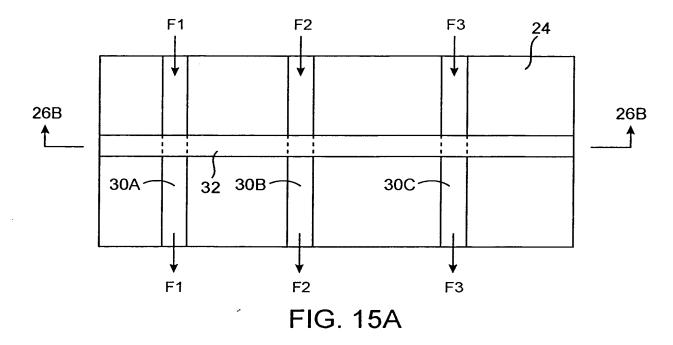
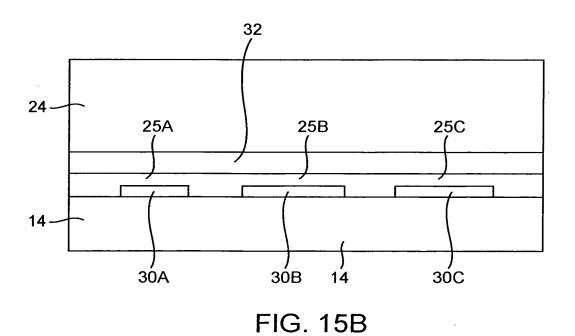


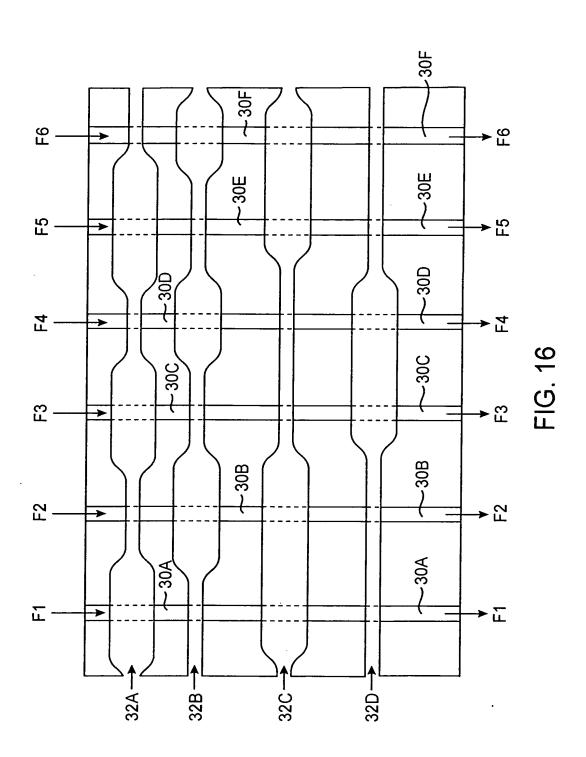
FIG. 14

12/63

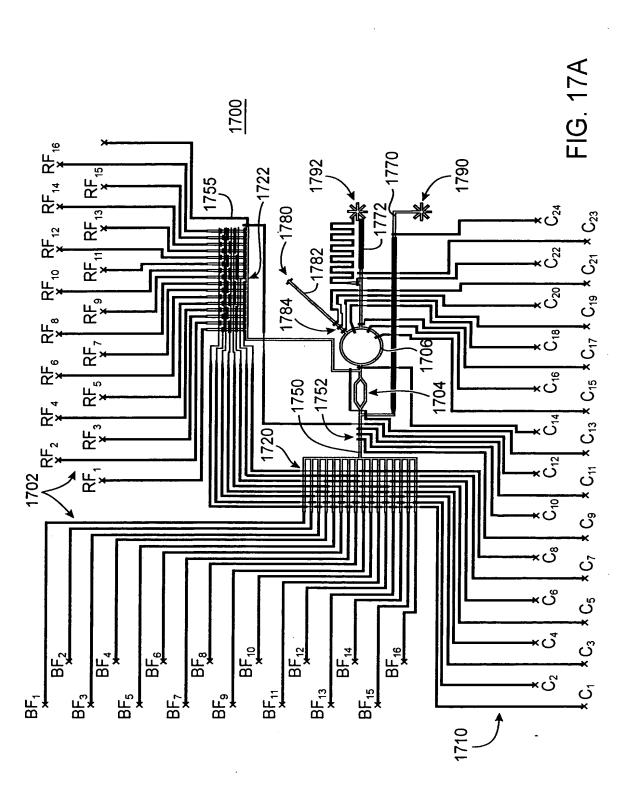


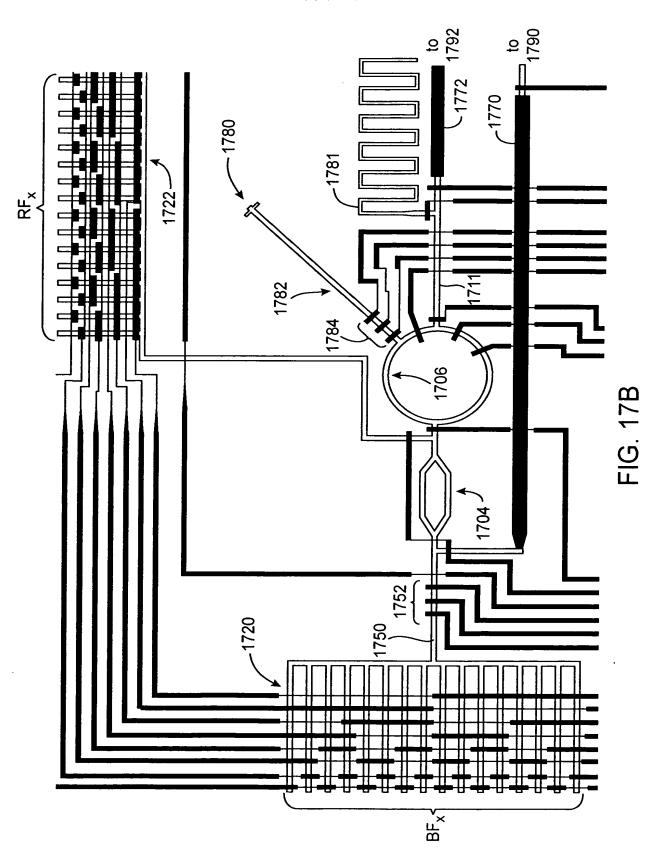


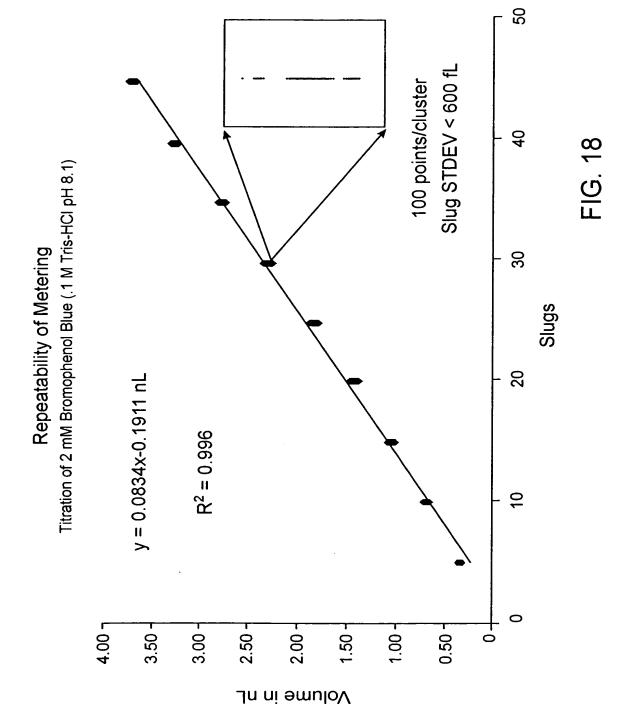
13 / 63



14 / 63







17 / 63

Insensitivity to Viscosity

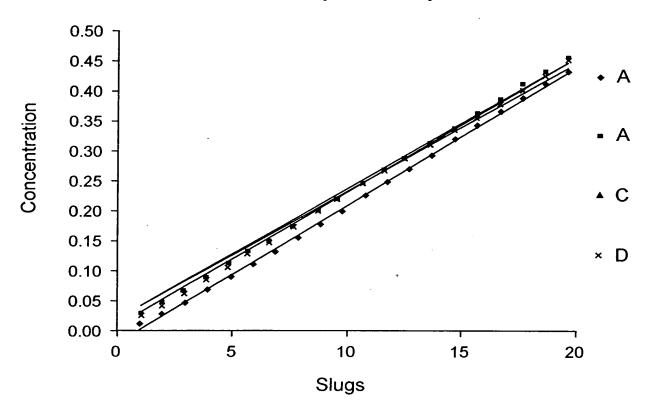


FIG. 19

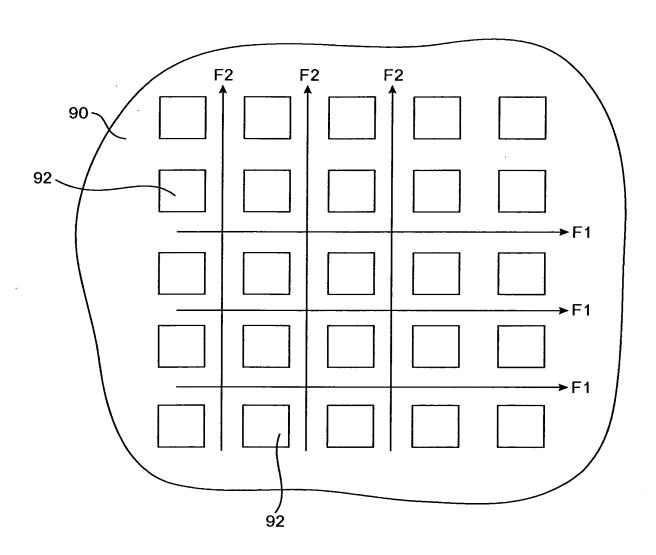


FIG. 20A

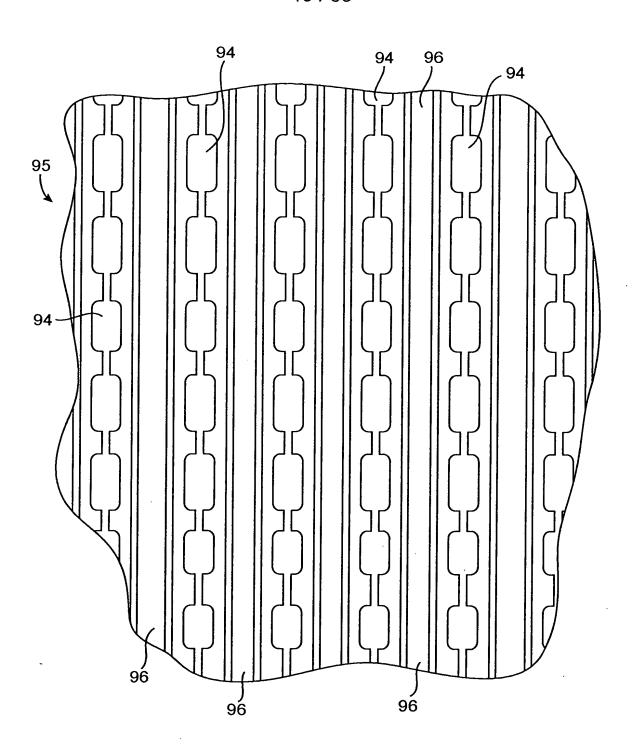


FIG 20B

20 / 63

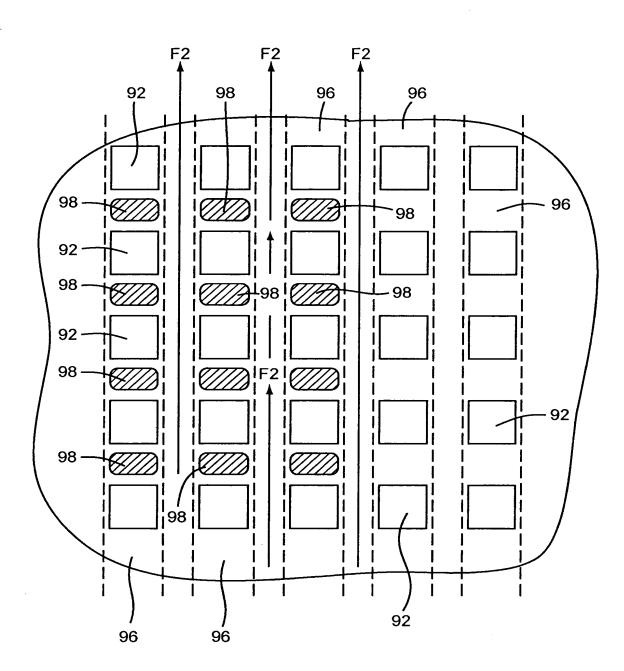


FIG. 20C

21/63

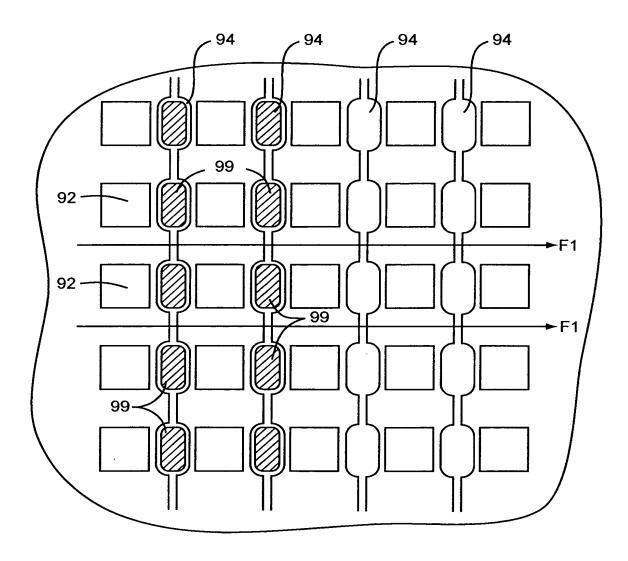


FIG. 20D

22 / 63

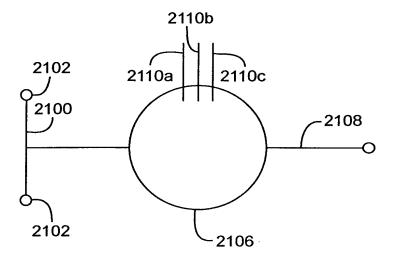
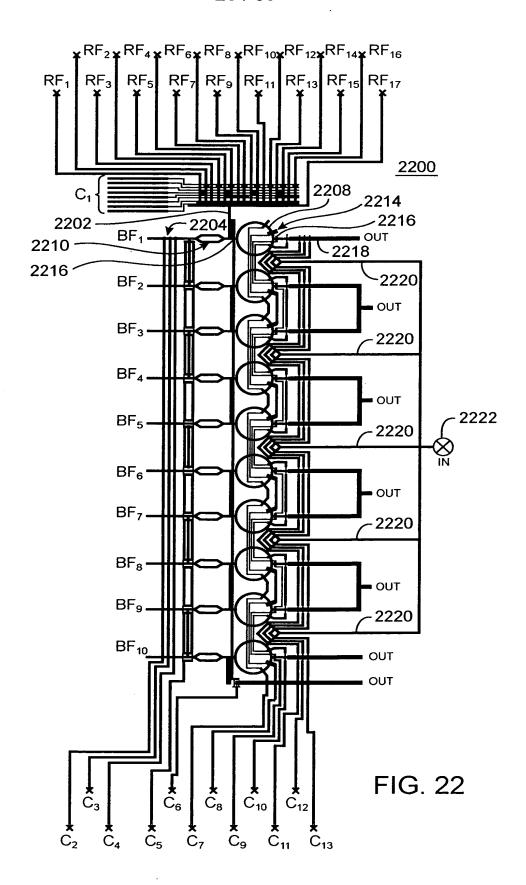


FIG. 21

23 / 63

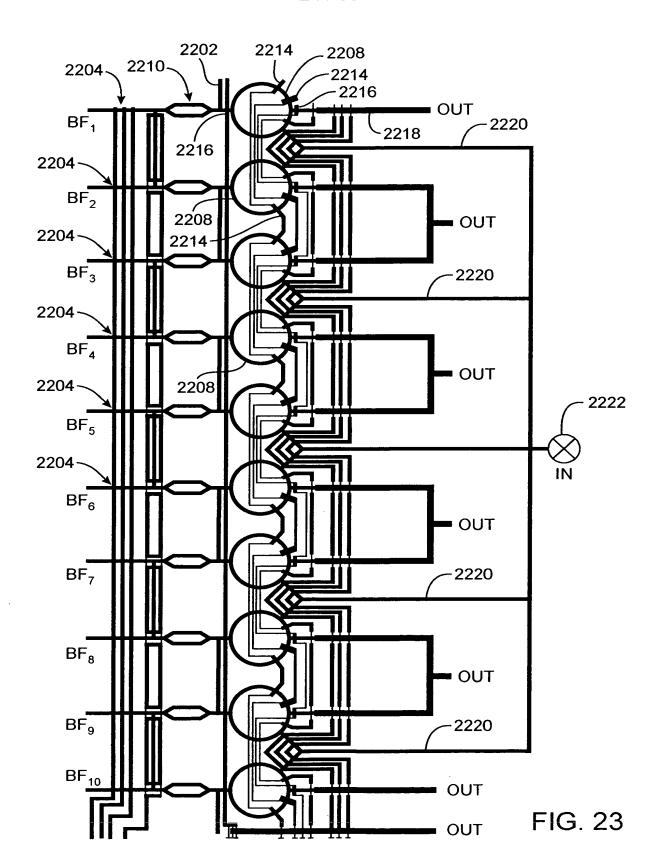


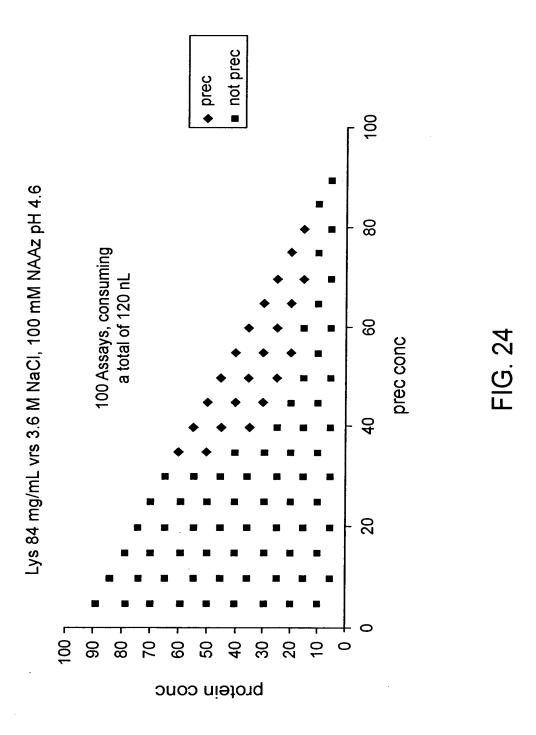
ا

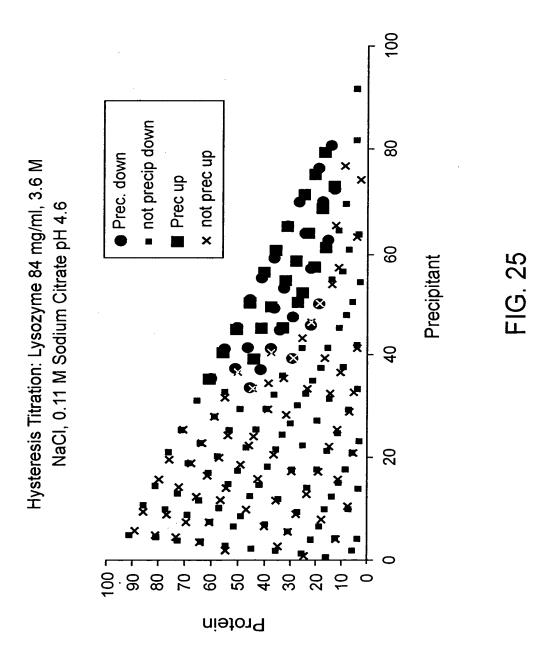
20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400 Title: Microfluidic Protein Crystallography

Inventors: Carl L. Hansen et al.

24 / 63

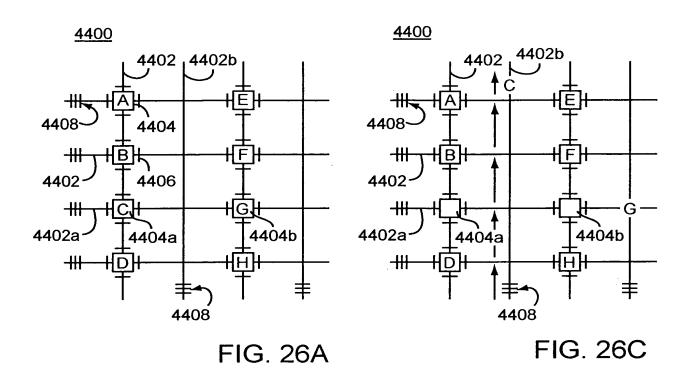


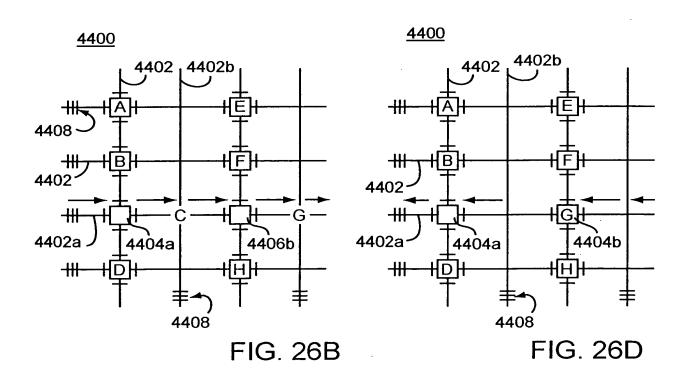


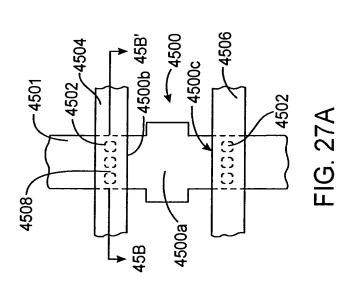


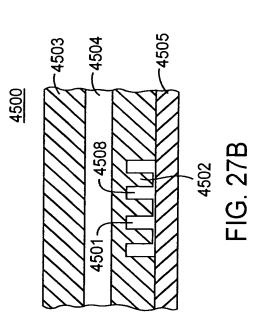
20174C-004940US, Appin No. 10/637,847

Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400 Title: Microfluidic Protein Crystallography Inventors: Carl L. Hansen et al.

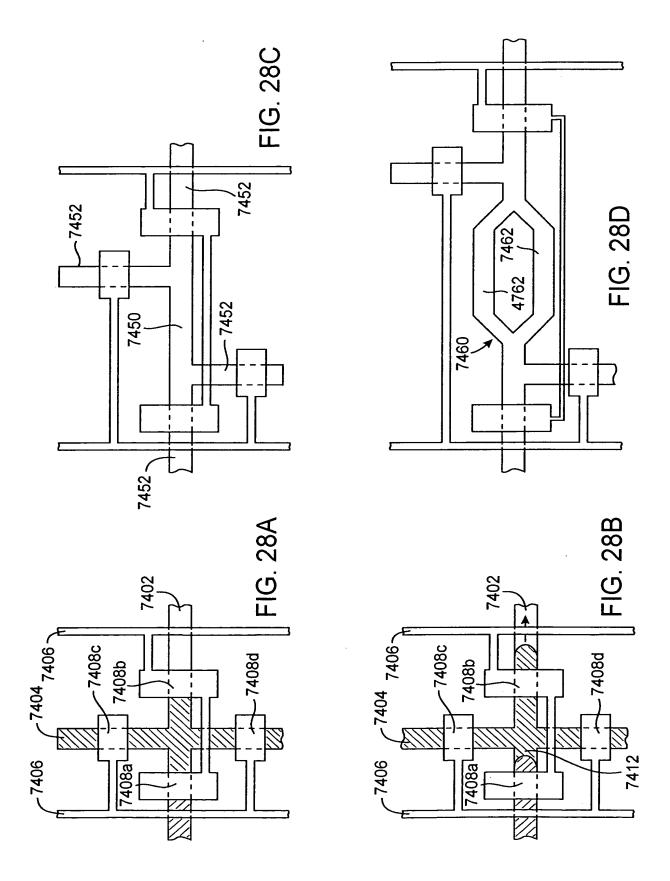




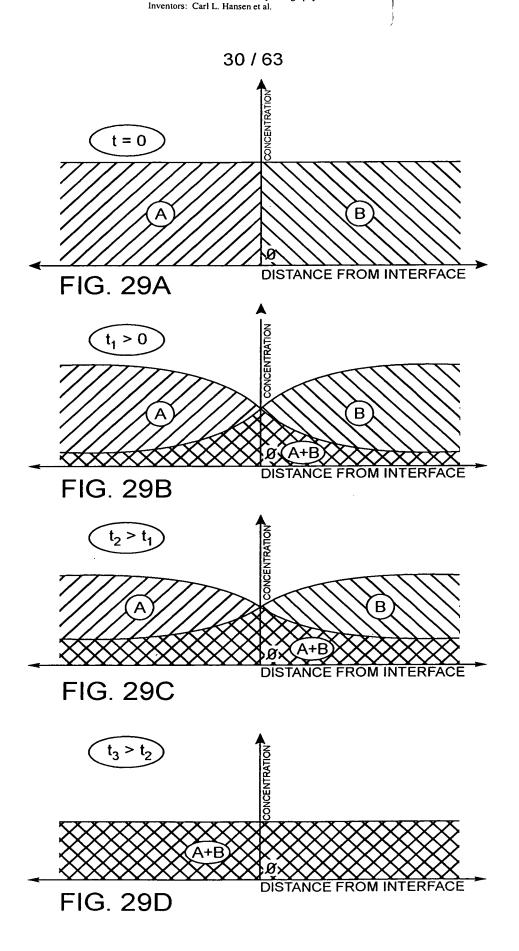




29 / 63



20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400 Title: Microfluidic Protein Crystallography



20174C-004940US, Appln No. 10/637,847

Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400

Title: Microfluidic Protein Crystallography

Inventors: Carl L. Hansen et al.

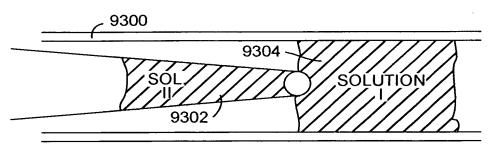


FIG. 30A (Prior Art)

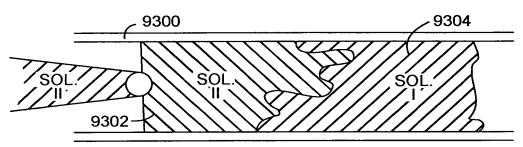


FIG. 30B (Prior Art)

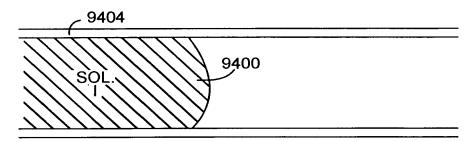


FIG. 31A (Prior Art)

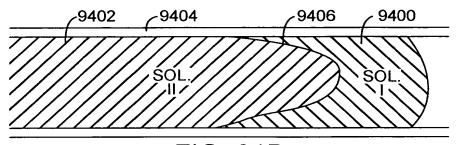


FIG. 31B (Prior Art)

t=0 ; $e_{I}>e_{II}$

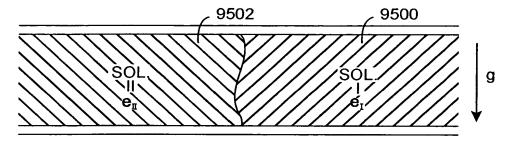


FIG. 32A (Prior Art)

 $t_1 > 0$

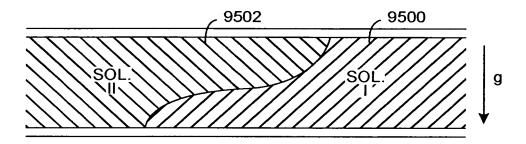
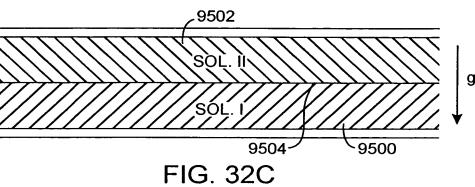


FIG. 32B (Prior Art)

 $t_2 > t_1$



(Prior Art)

33 / 63

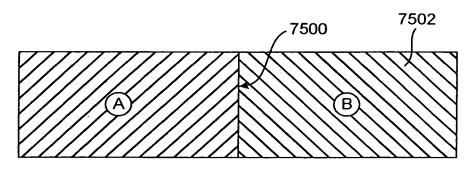


FIG. 33A

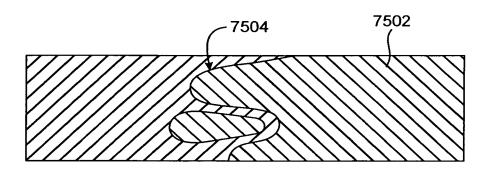
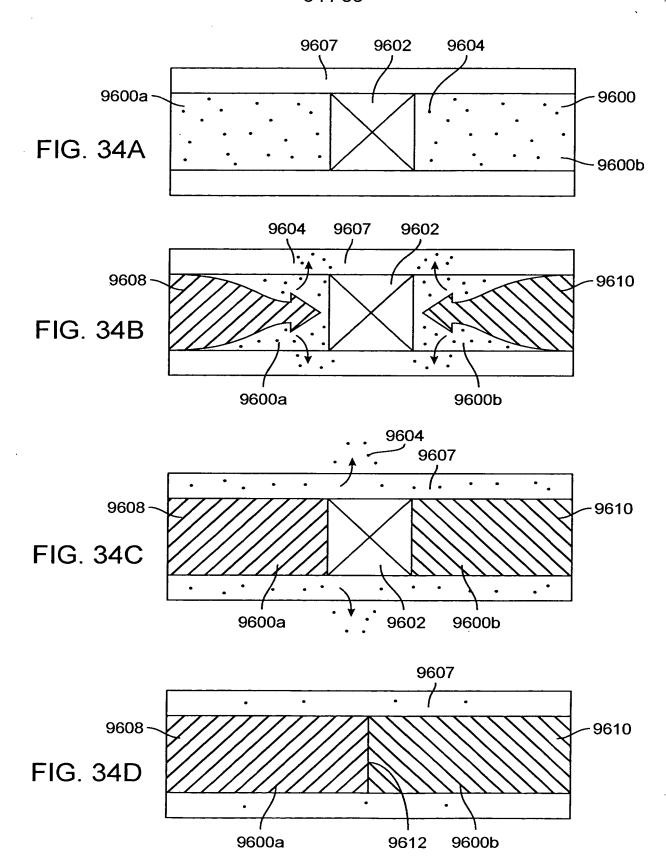


FIG. 33B (PRIOR ART)

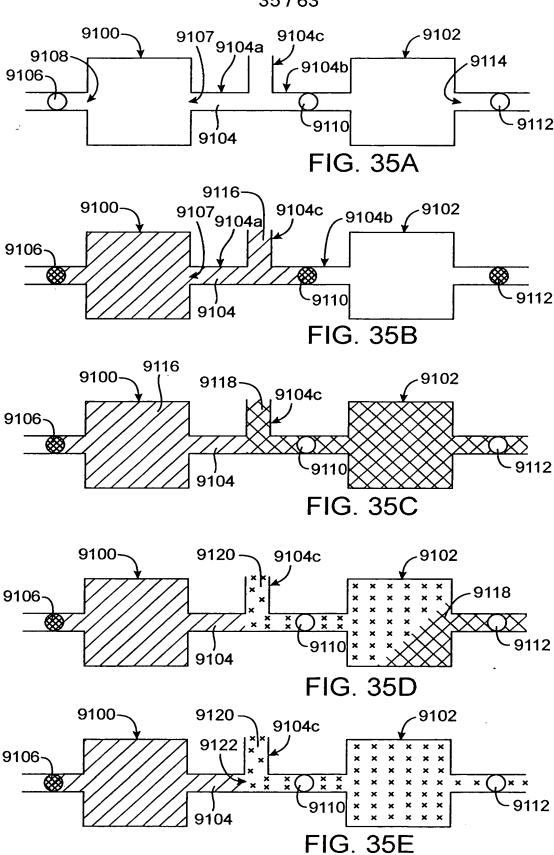
20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400 Title: Microfluidic Protein Crystallography

Inventors: Carl L. Hansen et al.



20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400 Title: Microfluidic Protein Crystallography

Inventors: Carl L. Hansen



36 / 63

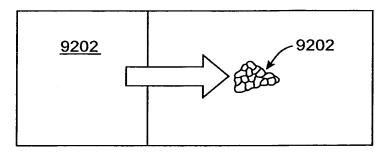


FIG. 36A (Prior Art)

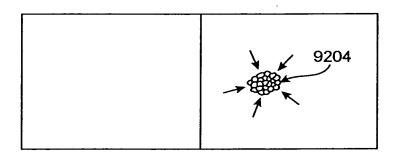
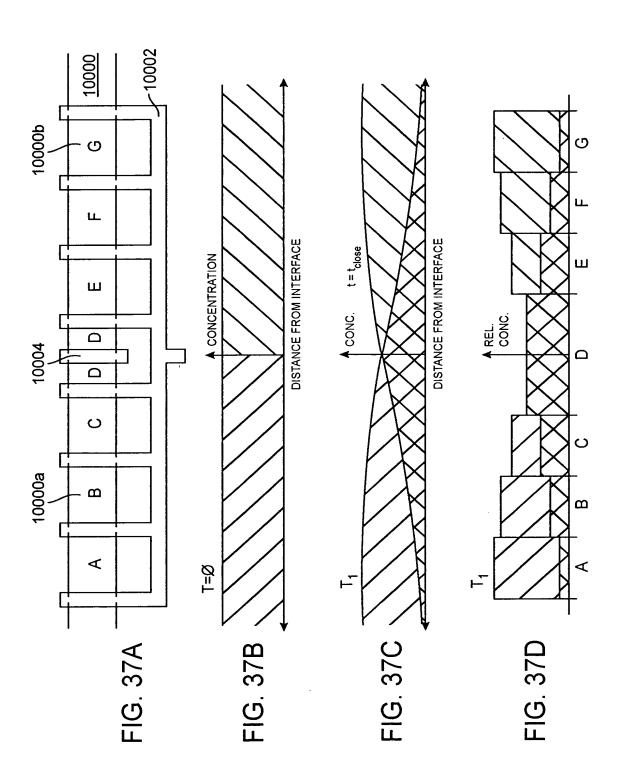


FIG. 36B

37 / 63



38 / 63

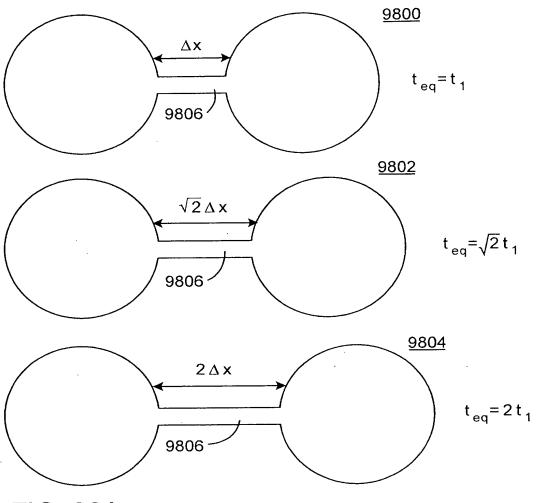
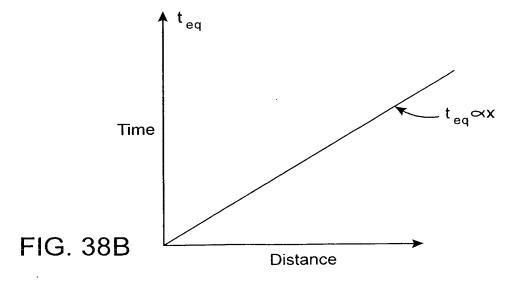


FIG. 38A



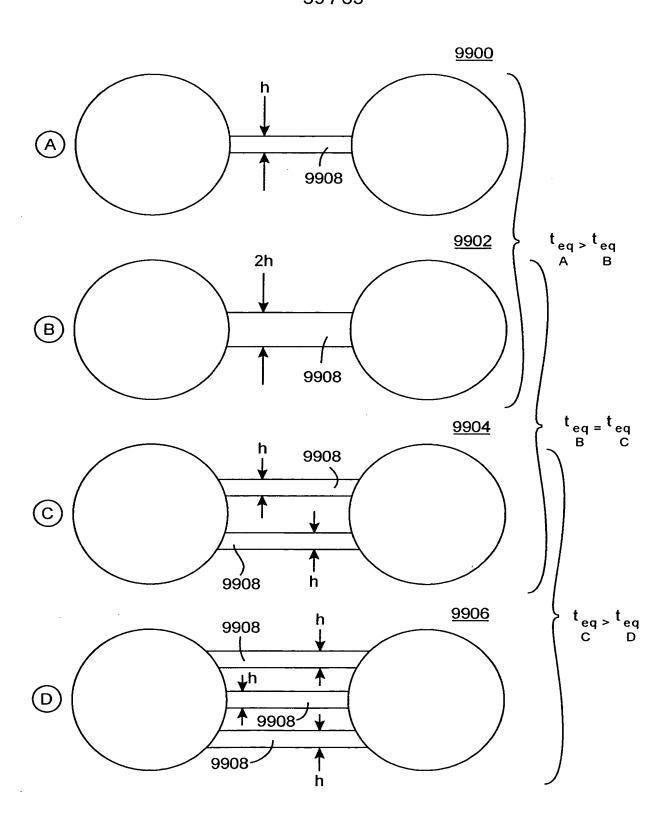
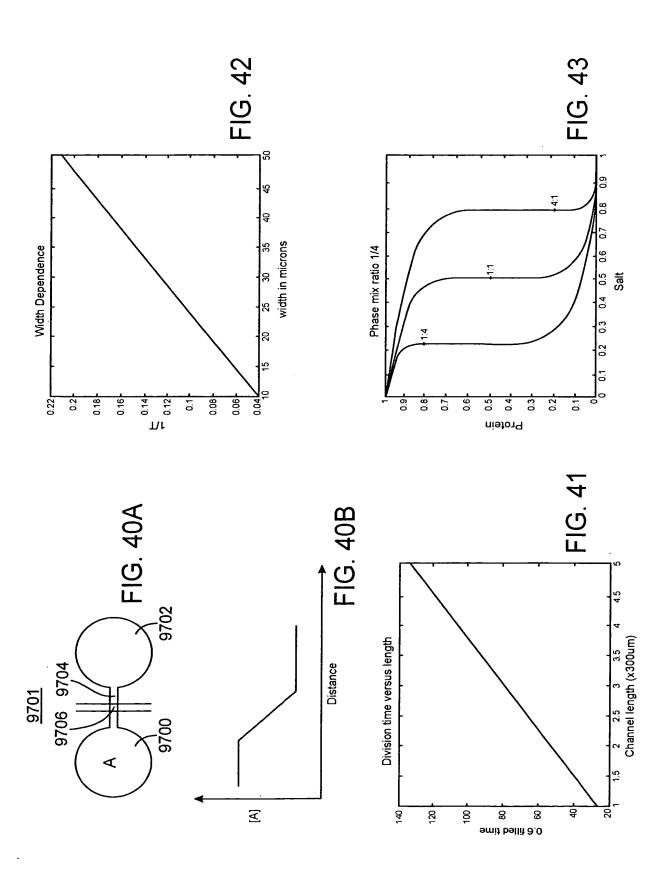
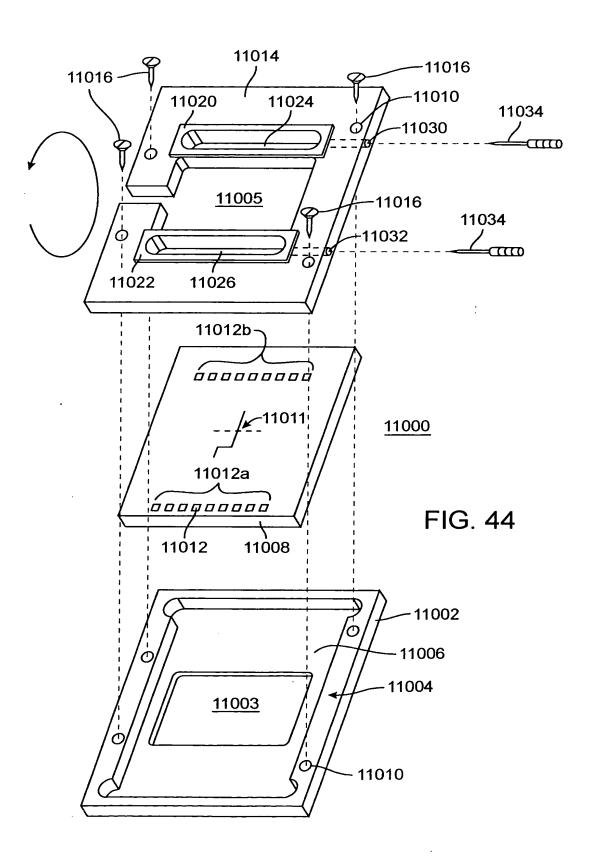


FIG. 39

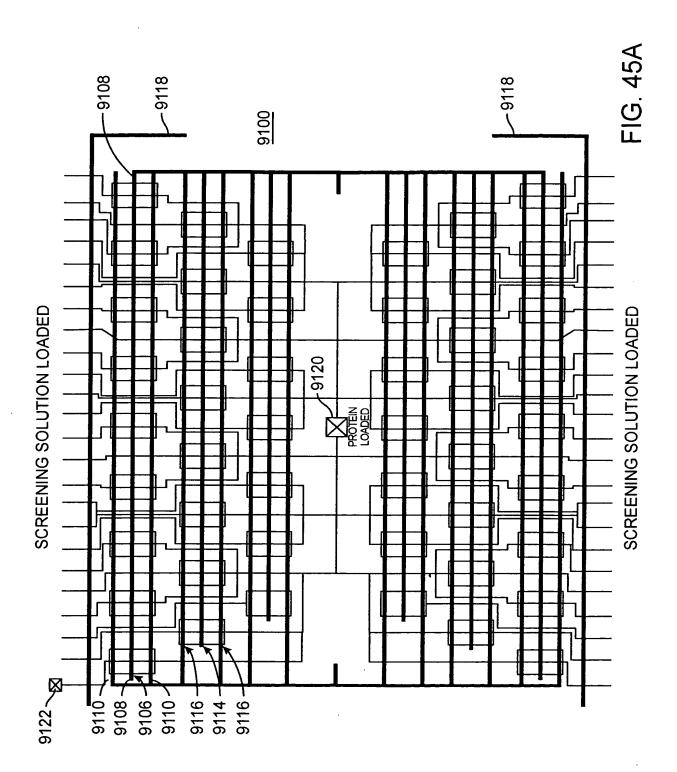
40 / 63



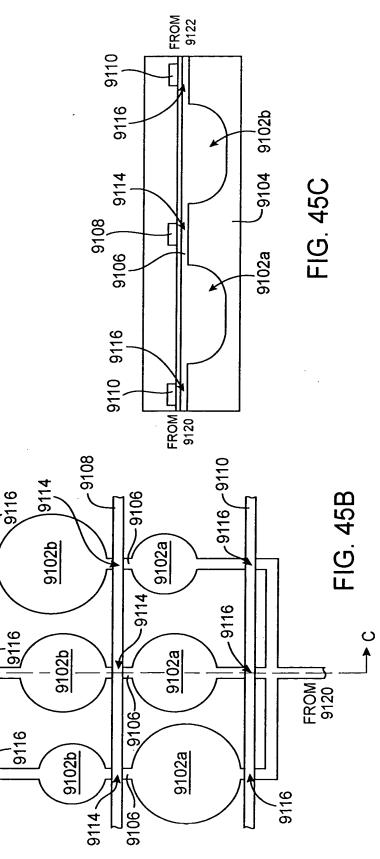
41 / 63



42 / 63



43 / 63



9110

FROM 9122

44 / 63

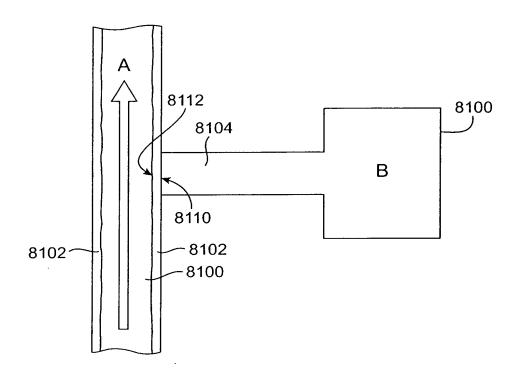
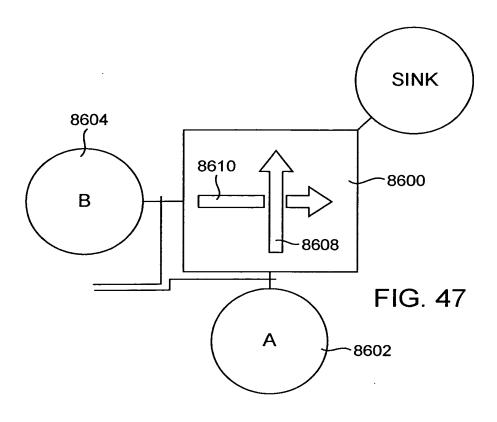
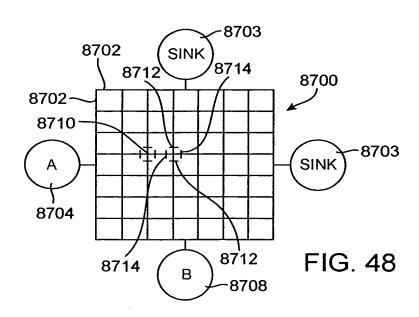


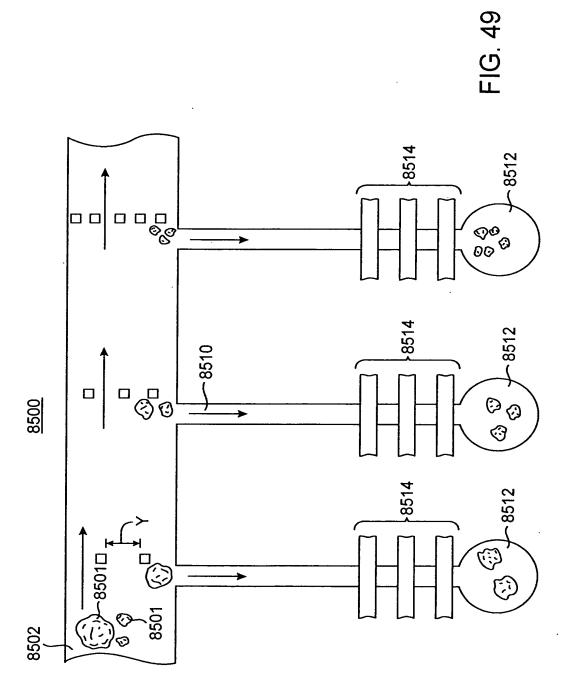
FIG. 46

45 / 63



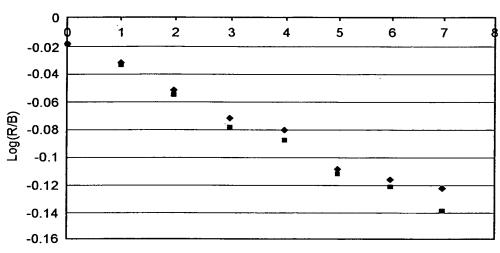


46 / 63



47 / 63

Log(R/B) Vrs #Slugs



Number of Slugs Injected

FIG. 50

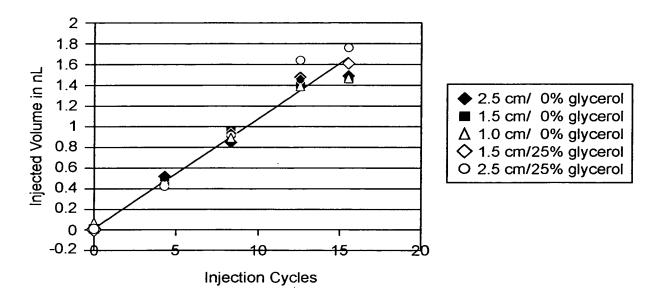


FIG. 51

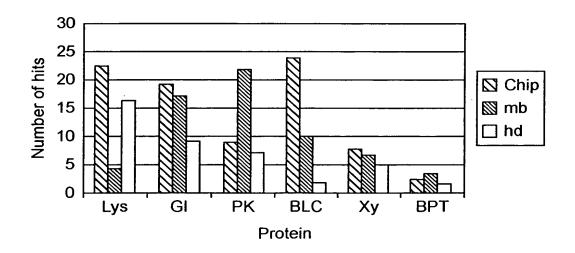
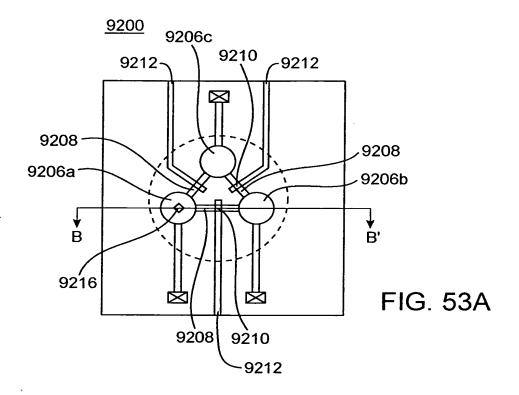
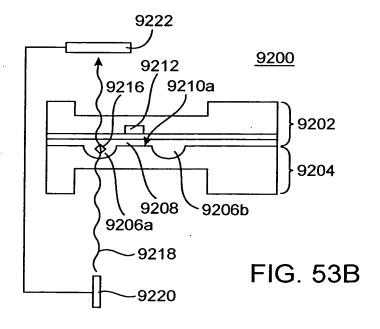


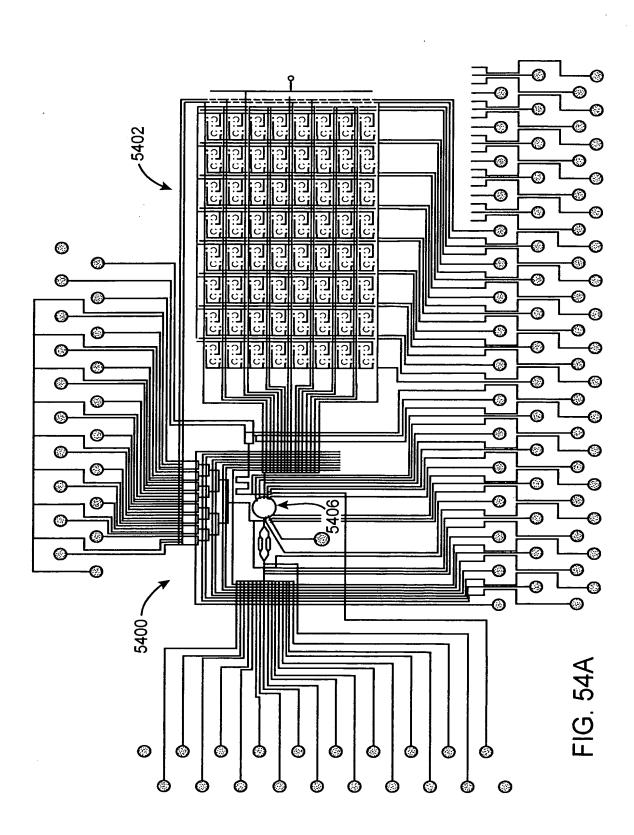
FIG. 52

49 / 63





50 / 63

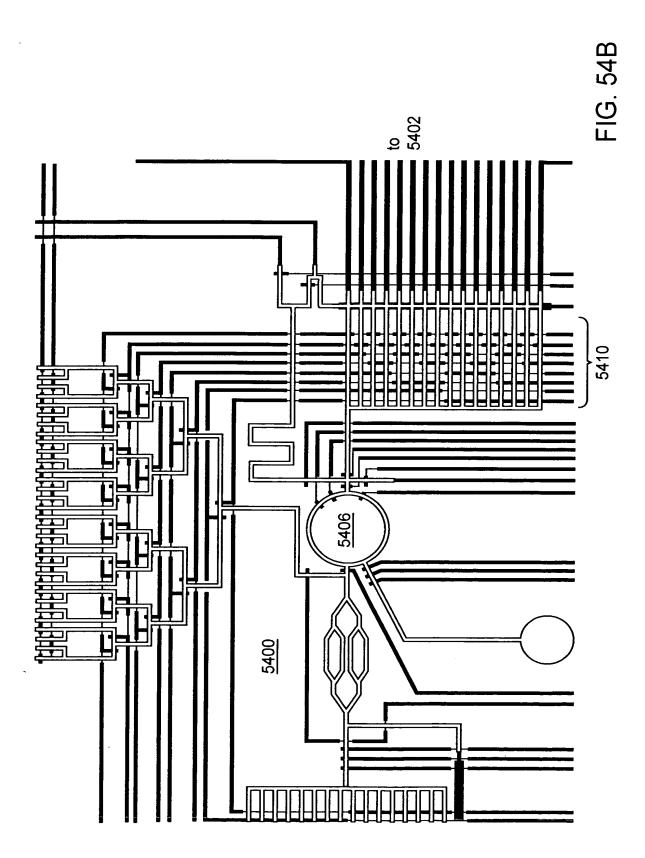


20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400

Title: Microfluidic Protein Crystallography

Inventors: Carl L. Hansen et al.

51/63



52 / 63

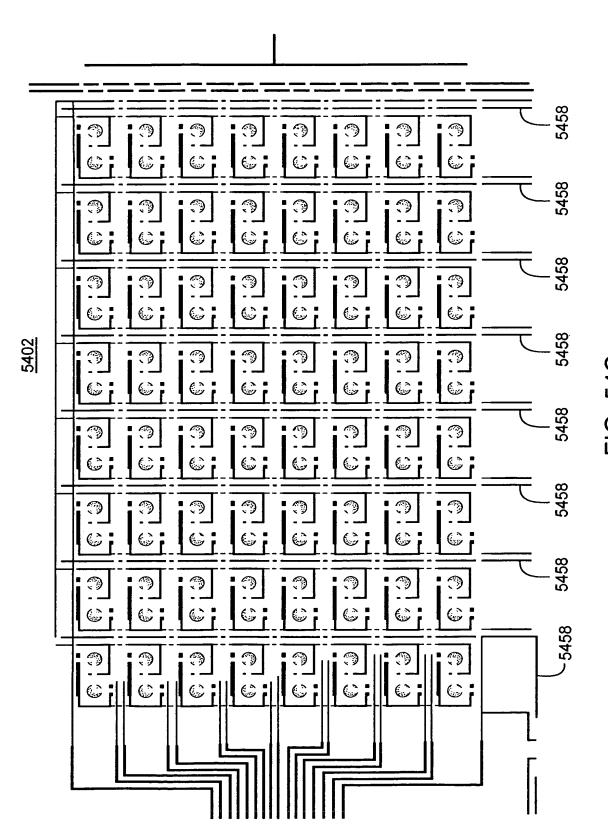
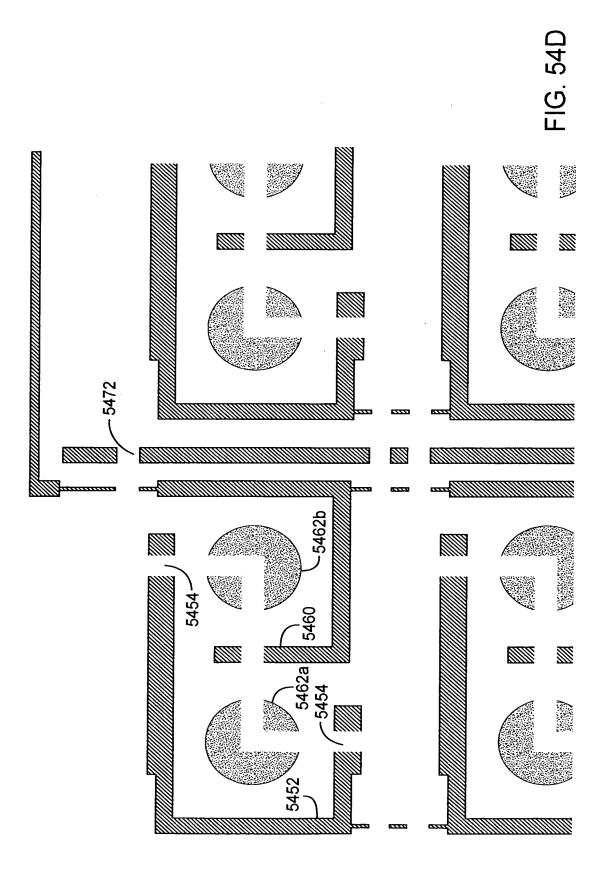
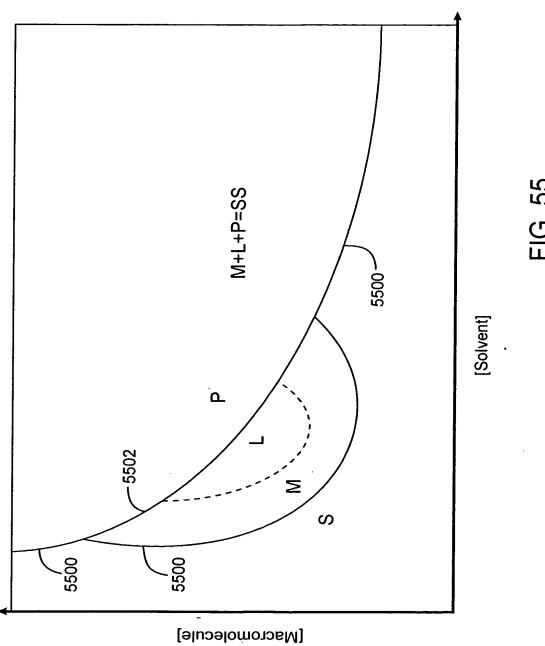


FIG. 54C

53 / 63



54 / 63



20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400

Title: Microfluidic Protein Crystallography Inventors: Carl L. Hansen et al.

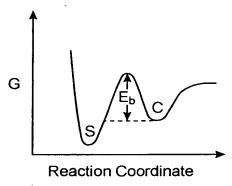


FIG. 56A

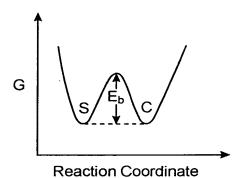


FIG. 56B

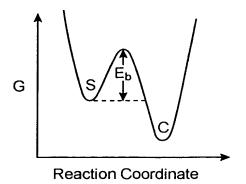


FIG. 56C

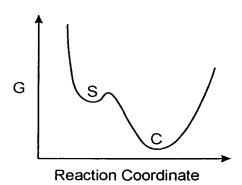


FIG. 56D

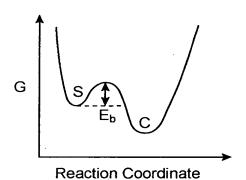
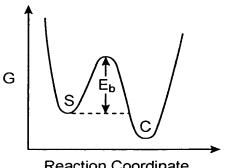


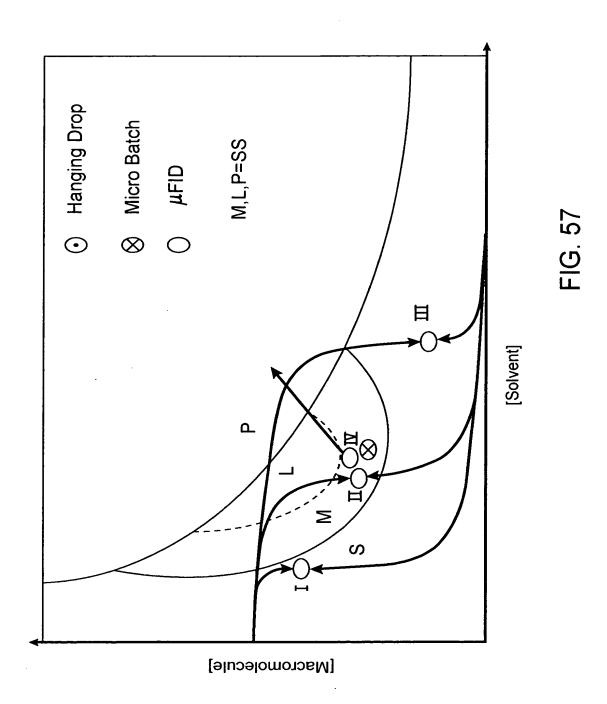
FIG. 56E

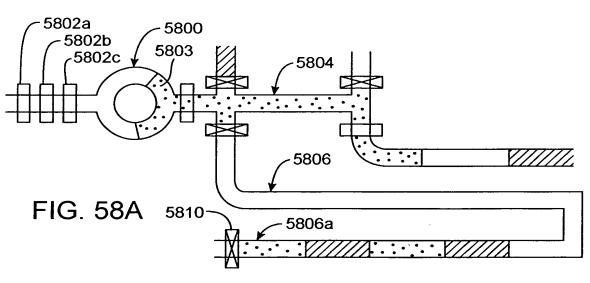


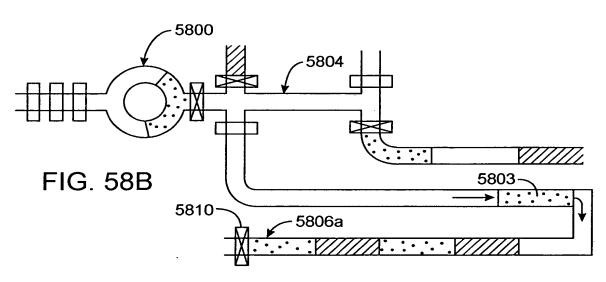
Reaction Coordinate

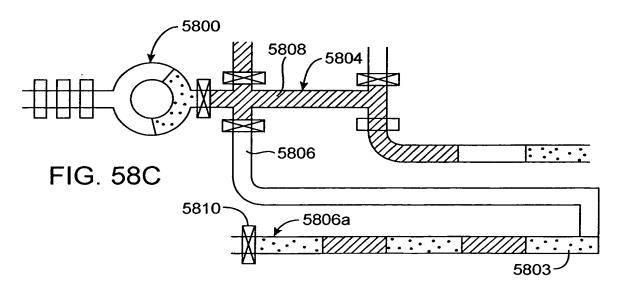
FIG. 56F

56 / 63

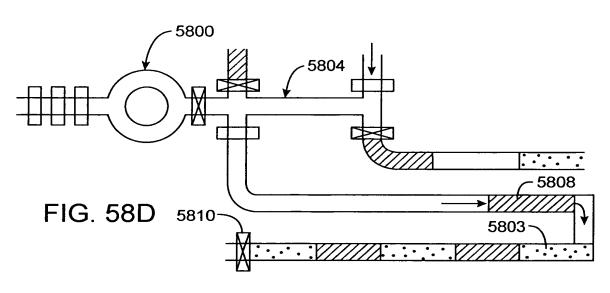


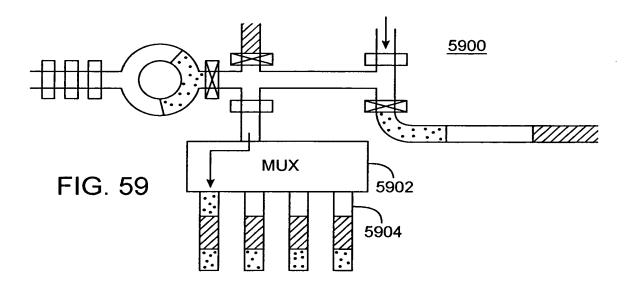


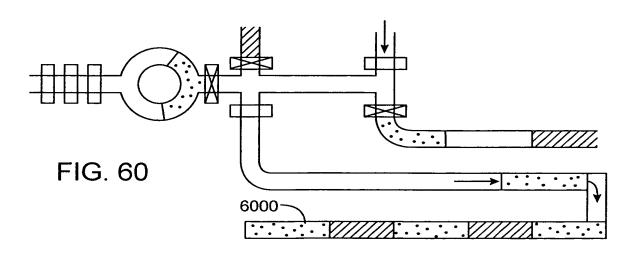




58 / 63





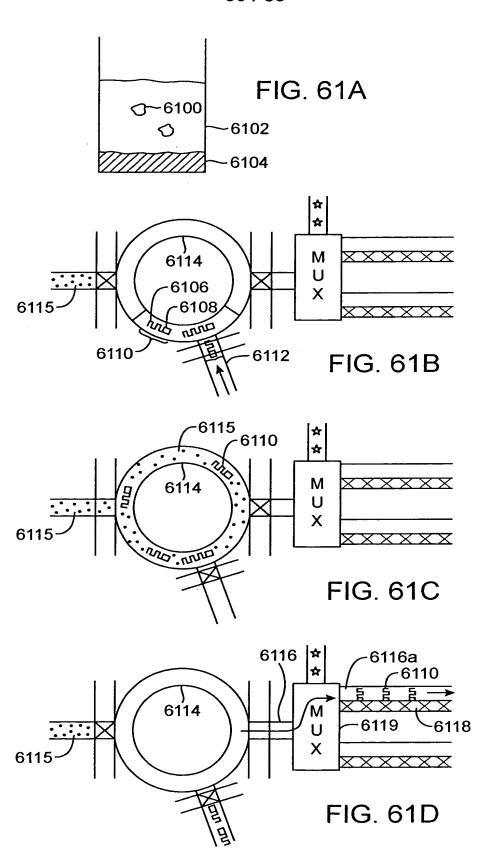


20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400

Title: Microfluidic Protein Crystallography

Inventors: Carl L. Hansen et al.

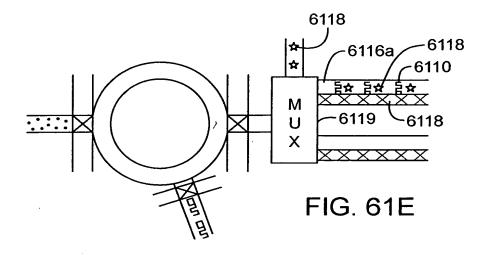
59 / 63

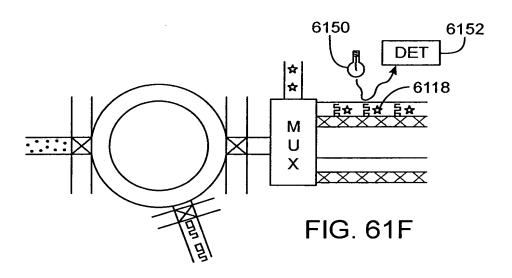


20174C-004940US, Appln No. 10/637,847 Kent J. Tobin, Reg. No. 39,496 Telephone: 650-326-2400 Title: Microfluidic Protein Crystallography

Inventors: Carl L. Hansen et al.

60 / 63





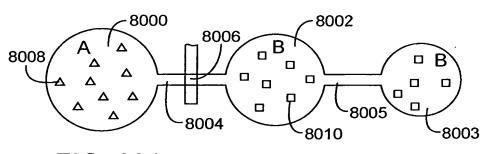
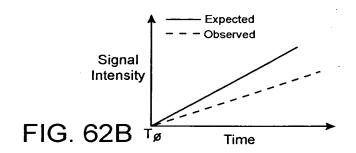
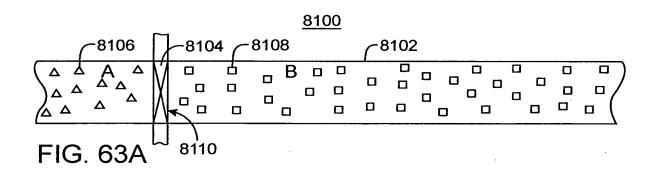
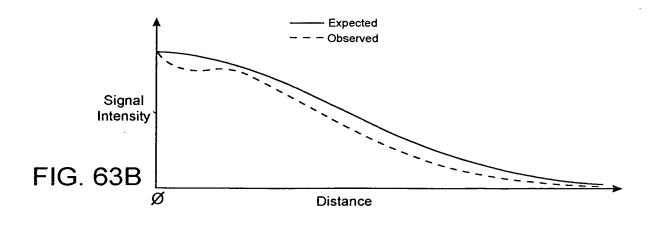


FIG. 62A







62 / 63

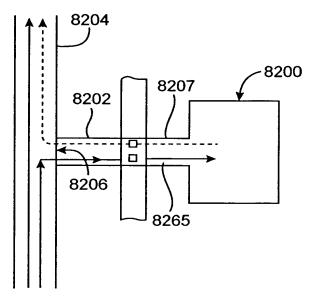


FIG. 64

Title: Microfluidic Protein Crystallography Inventors: Carl L. Hansen et al.

